INTERSECTION 137

Prairie Avenue/Del Amo Boulevard Improvement(s)

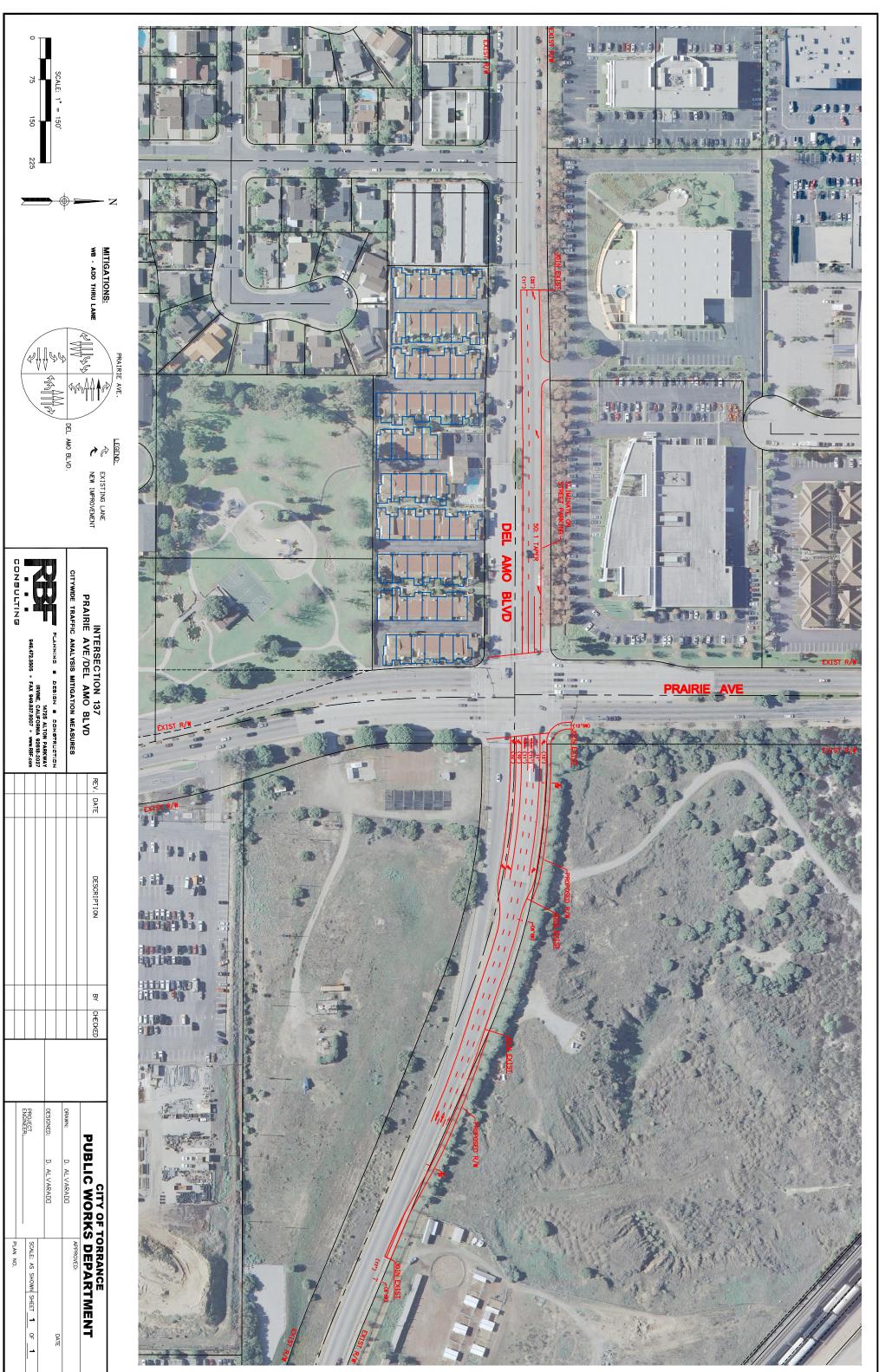
Forecast Near-Term Conditions Intersection LOS Summary

	Weekday AM Peak Hour	Weekday Mid-Day Peak Hour	Weekday PM Peak Hour	Weekend Mid-Day Peak Hour
Without Improvement(s)	36.9 – D	35.2 – D	60.2 – E	33.2 – C
With Improvement(s)	36.7 – D	34.7 – C	44.4 – D	33.2 – C

Note: Delay shown in seconds per vehicle; Deficient intersection operation shown in bold italics.

Recommended Improvements:

- Widen the westbound Del Amo Boulevard approach from two left-turn lanes, two through lanes, and one right-turn lane to consist of two left-turn lanes, three through lanes, and one right-turn lane.
- Implementation of the recommended improvements identified at the Prairie Avenue/Del Amo Boulevard intersection will require City acquisition of approximately 12-feet of right-of-way on the westbound Del Amo Boulevard approach and departure to provide adequate alignment of westbound Del Amo Boulevard through lanes.



CITY OF TORRANCE CITYWIDE TRAFFIC ANALYSIS MITIGATION MEASURES PRELIMINARY COST ESTIMATES

Location: Intersection 137: Prairie Avenue/Del Amo Boulevard
Mitigation: Widen the westbound Del Amo Boulevard approach to consist of two left-turn lanes, three through lanes, and one right-turn lane. Date: 3/21/2008 Estimated by: D. Alvarado

	DESCRIPTION OF WORK	UNIT PRICE	QUANTITY	COST		
	Mobilization	10.00% (\$2,000 Min)		\$79,000		
	Clear & Grub	\$10,000.00 / AC	225	\$0		
	Remove Striping Remove Curb & Gutter	\$10.00 / LF \$15.00 / LF	885 1,055	\$8,900 \$16,000		
	Remove Median Curb	\$13.00 / LF \$30.00 / LF	1,055	\$10,000		
_	Remove PCC Sidewalk	\$3.50 / SF	6,847	\$24,000		
	Remove Pavement	\$4.00 / SF	2,2	\$0		
8	Remove Wall	\$50.00 / LF		\$0		
	Remove Channel	\$15.00 / LF		\$0		
	Remove/Replace Chain Link Fence	\$50.00 / LF		\$0		
	Remove/Replace Wrought Iron Fence	\$10.00 / LF		\$0		
	Remove/Replace Survey Monument	\$800.00 / EA \$70.00 / LF		\$0 \$0		
	Reconstruct Metal Beam Guard Rail Remove & Relocate Tree	\$70.00 / LF \$3,000.00 / EA	38	\$114,000		
	Sawcut	\$1.00 / LF	1,056	\$1,100		
	Relocate Street Light	\$7,500.00 / EA	1,222	\$0		
	Relocate Traffic Signal System	\$300,000.00 / EA	0.25	\$75,000		
	Signal Phase Modification	\$10,000.00 / EA		\$0		
	Relocate Freeway Sign (2 post)	\$1,000.00 / EA		\$0		
	Relocate Sign (1 Post)	\$300.00 / EA	1	\$300		
	Reconstruct Overhead Sign	\$50,000.00 / EA		\$0		
	Relocate Call Box Relocate Power Pole	\$2,000.00 / EA \$25,000.00 / EA		\$0 \$0		
	Relocate Catch Basin	\$9,000.00 / EA	2	\$18,000		
	Relocate Fire Hydrant	\$2,500.00 / EA	3	\$7,500		
	Relocate Bus Shelter	\$2,000.00 / EA		\$0		
27	Relocate Bus Bench	\$600.00 / EA		\$0		
	Relocate Monument Sign	\$5,000.00 / EA		\$0		
	Relocate Utility Boxes	\$500.00 / EA		\$0		
	Relocate Main Water Valve	\$10,000.00 / EA		\$0		
	Relocate Utility Vault	\$3,000.00 / EA	1	\$3,000		
	Adjust Manhole to Grade Adjust Water Meter	\$1,000.00 / EA \$2,000.00 / EA	3	\$3,000 \$2,000		
	Adjust Water Valve	\$500.00 / EA	1	\$500		
	Adjust Minor Above Ground Utilities	\$500.00 / EA	1	\$1,000		
	Modify Driveway	\$5,000.00 / EA		\$0		
37	Earthwork	\$40.00 / CY	1,466	\$59,000		
	Construct PCC Pavement	\$15.00 / SF	3,262	\$49,000		
	Construct AC Pavement	\$14.00 / SF	4,654	\$65,000		
	Construct AC Overlay	\$3.00 / SF		\$0		
	Construct Slurry Seal Construct Striping & Marking	\$0.25 / SF \$4.00 / LF	885	\$0 \$3,600		
	Construct AC Dike	\$7.00 / LF	000	\$3,600		
_	Construct Curb & Gutter	\$40.00 / LF	1,048	\$42,000		
	Construct Concrete Barrier	\$50.00 / LF	.,	\$0		
46	Construct Median Curb	\$20.00 / LF		\$0		
47	Construct Median Concrete	\$10.00 / SF		\$0		
48	Construct Median/Parkway Landscaping	\$10.00 / SF		\$0		
	Construct PCC Sidewalk	\$10.00 / SF	6,622	\$66,000		
	Construct Access Ramp	\$5,000.00 / EA	1	\$5,000		
	Construct Retaining Wall Construct Storm Drain Main	\$50.00 / SF \$100.00 / LF		\$0 \$0		
	Construct Storm Drain Main Construct RCB	\$1,000.00 / LF \$1,000.00 / LF		\$0 \$0		
	Construct Headwall	\$5,000.00 / EA		\$0		
55	Construct Concrete V-Ditch	\$15.00 / LF		\$0		
56	Construct Bridge Widening	\$500.00 / SF		\$0		
	Construct Wall	\$70.00 / LF		\$0		
	Building/Structure Demolition (1-Story Bldg)	\$10.00 / SF		\$0		
	Traffic Control (\$5,000 min)	8%	1	\$45,000		
	Drainage Items SWPPP Plan and Implementation	10%	1	\$61,000 \$30,660		
	CONSTRUCTION SUBTOTAL	070	1	\$39,660 \$788,560		
	Right-of-Way	100 / SF	4,431	\$443,000		
	Right-of-Way Management	5 / %	.,	\$22,000		
		\$465,000				
RIGHT-OF-WAY SUBTOTAL TOTAL CONSTRUCTION & RIGHT-OF-WAY COST						
	reliminary Project Development (10% of total Construction/RW cost)					
_	Design Engineering/Administration Costs (15% of total Construction/RW cost) (\$10,000 min)					
Construction Engineering Costs/Administration (10% of total Construction/RW cost) (\$5,000 min)						
	ency (20% of Total Construction/RW cost) (\$5,000 min)			\$251,000 \$1,946,000		
TOTAL PROJECT COSTS						